

INEEL SNF Program Status

National Spent Nuclear Fuel Program Strategy Meeting

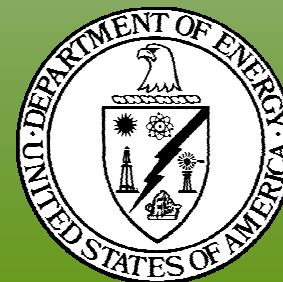
M. V. Willcox

Department of Energy - Idaho

November 6, 2000



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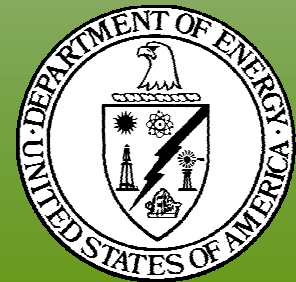


INEEL Spent Fuel Program Objectives

- 1. Safely manage current inventory**
- 2. Consolidate spent fuel storage areas and achieve interim dry storage**
- 3. Support domestic, foreign, and naval spent fuel receipts**
- 4. Prepare for final disposition by making spent fuel road-ready**



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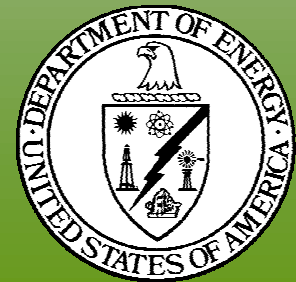


INEEL SNF Program Strategies

- 1. License new SNF facilities by the Nuclear Regulatory Commission**
- 2. Integrate INEEL SNF with the DOE repository program**
- 3. Develop technology in conditioning, characterization and packaging areas**
- 4. Implement Quality Assurance Program aligned with DOE/RW-0333P for non-licensed activities**



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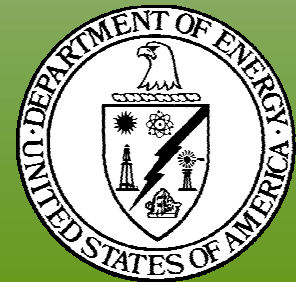


INEEL SNF Program Activities

- ID-SNF-102 Integrated SNF Program M. Willcox**
- ID-SNF-103 Emptied SNF Facilities R. Ramsey**
- ID-SNF-104N Construct New Facilities B. Beller**
- ID-SNF-105 Dry Transfer and Storage Project -
F. Schwartz**



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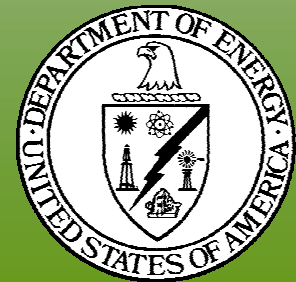


FY 2000 Accomplishments

- 1) SA MS E.7 Empty fuel from CPP-603 basins**
- 2) SA MS F.2 Commence spent fuel loading into dry storage**
- 3) Continued TMI-2 transfers**
- 4) Received shipments: 33 naval and 15 ATR
1 UK FRR**



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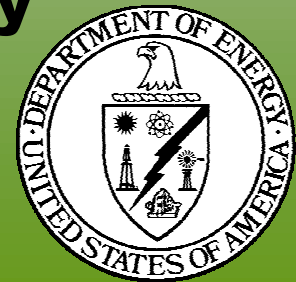


FY 2000 Accomplishments (continued)

- 5) Awarded contract to Foster Wheeler for private dry storage facility**
- 6) Completed ISMS verification at INTEC and TAN**
- 7) Established RW-0333P based QPP for non-licensed spent fuel activities**
- 8) Integrated scheduling - fuel/facility process flow**



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Major Milestones

FACILITIES

1. CPP-603 underwater basin storage
2. CPP-666 basin storage
Navy fuel out by
3. TAN underwater pool
Dry pad storage
4. CPP-749 Dry Storage Facility
5. IFSF (CPP603 dry side)

Planned Out By

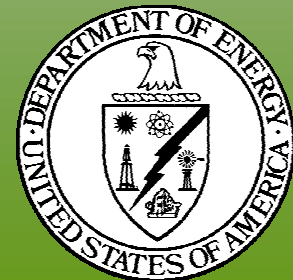
Revised

12/31/00	04/28/00
09/30/06	2011
09/30/11	2009
09/30/06 a	09/02
2015 b	2018
09/30/11	2009*
12/29/23	2034

a fuel out; b close; * maybe



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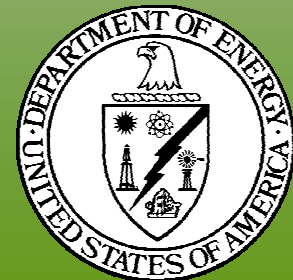
Major Milestones (Continued)

FACILITIES	Planned Out By	Revised
6. DOE Dry Storage Facility CPP-1774	03/31/99 c 01/01/35	NC
7. Privatized Dry Storage Facility	07/01/03 c 01/01/35	6/05 NC
8. Fort St. Vrain ISFSI	09/30/27	NC

c operational; NC no change;



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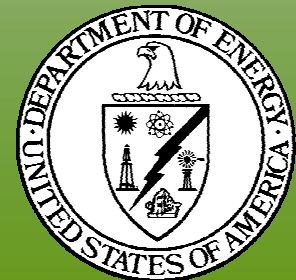


Other Work

- **GTI Detection of Enriched Uranium**
 - **Texas A&M & KSU measurements**
 - **Salazar, Mexico visit in FY 2001**
- **NRC Dry Cask Storage Characterization**
 - **Transfer rods from TAN to ANL-W**
 - **Measure fuel**



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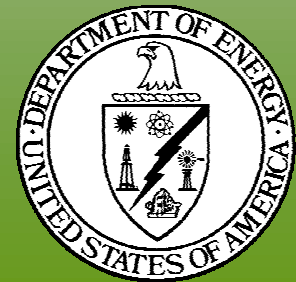


Planned Activities FY 2001

- 1) Meet SA milestone - Complete TMI-2 transfers to new storage by 06/01/01
5 of 29 complete**
- 2) Complete ATR cooling study**
- 3) Plan off-site receipts
Receive and store WV spent fuel
Begin SRS transfer study
Develop OR fuel tools
Receive FRR from Germany**



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Planned Activities FY 2001 (Continued)

4) Investigate epoxy work and LOFT conceptual design

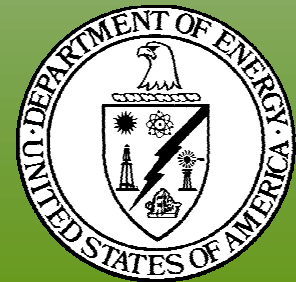
5) Commence MTR/PBF fuel relocations

6) Turnover CPP-603 basins to Deactivation

7) Pass audit of QPP aligned with RW-0333P requirements



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NEEDS - To Be Provided by NSNF Program

Negotiate a final SNF receipt requirements with YMO

- **Physical packaging requirements for transportation**
- **Characterization requirements**
- **Documentation requirements**

Help determine complex-wide SNF receipt requirements

Help develop treatment alternatives for problematic SNF

Help champion a reasoned approach to proposed requirements for safeguarding irradiated nuclear fuel that is not self-protecting.



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